

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF

DOCKET NO.: 3091R

MITCHELL M. JACKSON ET. AL.

SERIAL NO.: 09/924,027

EXAMINER: C. TOOMER

FILED: AUGUST 7, 2001

GROUP ART UNIT: 1714

TITLE: FUEL COMPOSITION CONTAINING DETERGENT COMBINATION AND  
METHODS THEREOF

Wickliffe, Ohio

Hon. Commissioner for Patents  
Alexandria, Virginia 22313-1450

Sir:

**DECLARATION UNDER 37 C.F.R. §1.132**

I, Mitchell M. Jackson, declare as follows:

I received a BS degree in 1979 from The University of Michigan, in the field of Chemical Engineering and a MBA in 1986 from Rutgers University.

I have been employed by The Lubrizol Corporation since 1990. Since that time I have been responsible for fuel additive and the associated technologies.

I am familiar with the invention claimed in the above-mentioned case and with the references which were used in the rejection thereof.

In order to illustrate the improvement in performance of the compositions of the above invention, the following experiment was performed under my direction and control.

The formulations in this Declaration are evaluated in the modified ASTM D5500 Driving Cycle test. The vehicle used in this test is the BMW™ 318i automobile with a 1.8L 4 cycle engine. The fuel used in this test is a regular unleaded subgrade 87 octane with 10% ethanol. The additive package used in the fuel consists of 33 percent by weight of a DMAPA (dimethylaminopropylamine) Mannich type detergent and 22 percent by weight of the polyether and 45 percent by weight of solvent. The test is

I certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 28, 2005:

By: Nancy S. Dedek Date: 6-28-05  
Nancy S. Dedek

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conducted in a BMW vehicle for 2500 miles. At the end of the test, the intake valves are evaluated for deposit level as described in ASTM D5500.

	Examples	Intake Valve Deposit, mg
Ex. 1	Base Fuel + (no additive)	162
Ex. 2	Base Fuel + 235 ppm of additive package	171

The results show that a fuel containing DMAPA Mannich in combination with a polyether (example 2), compared to the fuel with no additive present in the formulation (example 1), does not reduce intake valve deposit formation.

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I further declare that all statements herein made of my own knowledge are true and all statements herein made on information and belief are believed to be true. I understand that willful false statements and the like are punishable by fine or imprisonment or both (18 U.S.C. 1001) and may jeopardize the validity of the application or any patent issuing thereon.

A handwritten signature in black ink, appearing to read "Mitchell M. Jackson", written over a horizontal line.

Mitchell M. Jackson

6/27/05

Date